

FIG. 1a

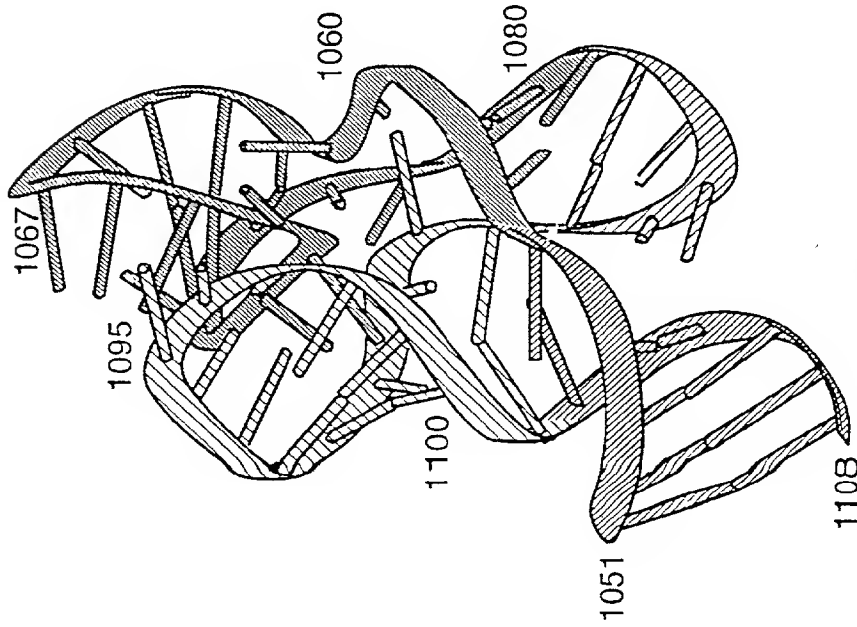


FIG. 1b

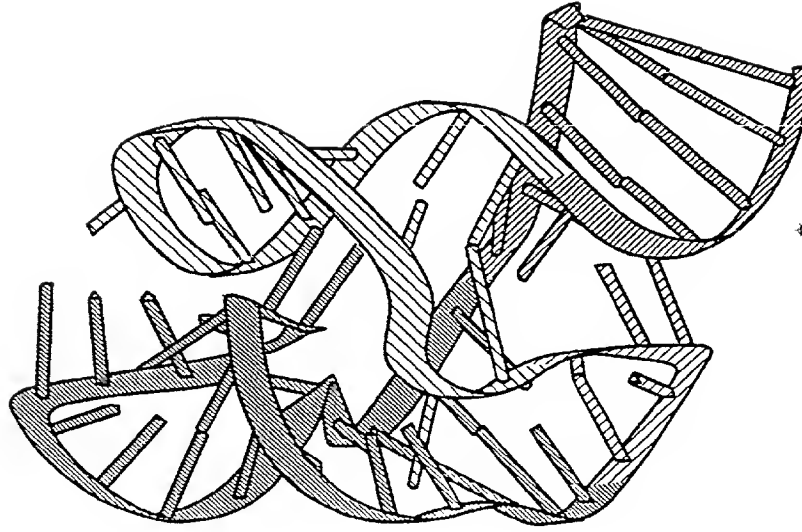


FIG. 1c

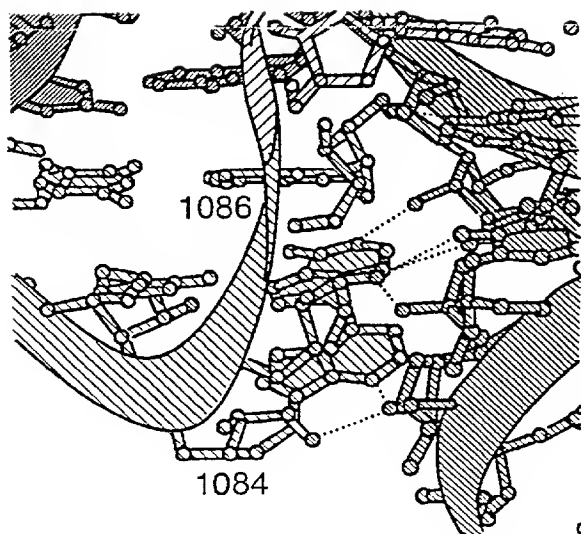


FIG. 2a

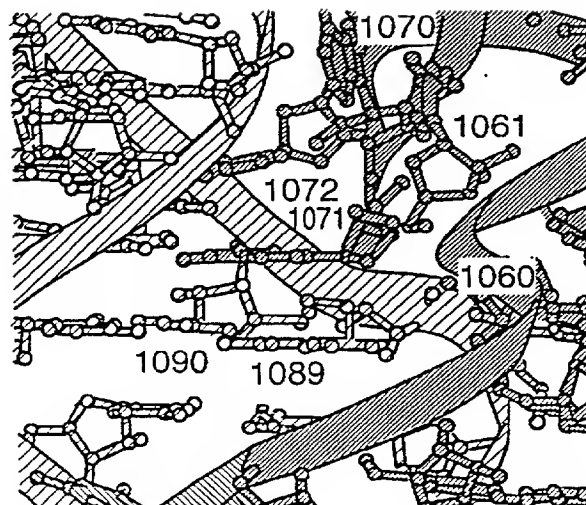


FIG. 2b

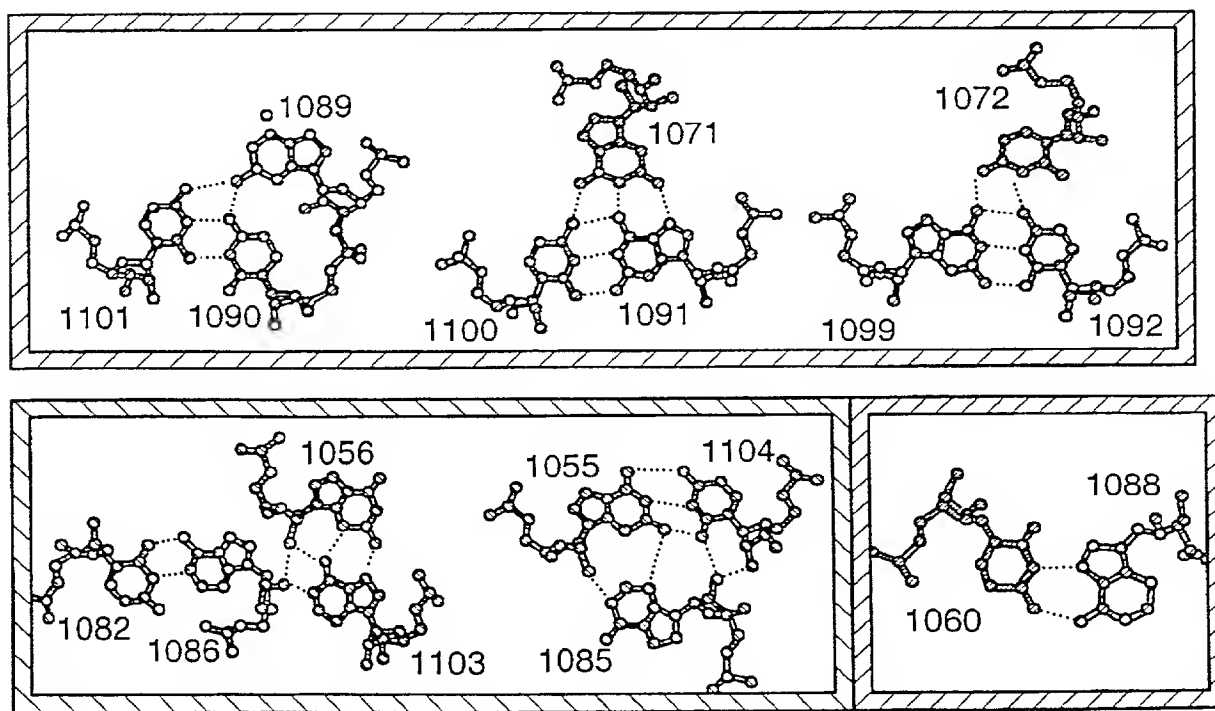


FIG. 2c

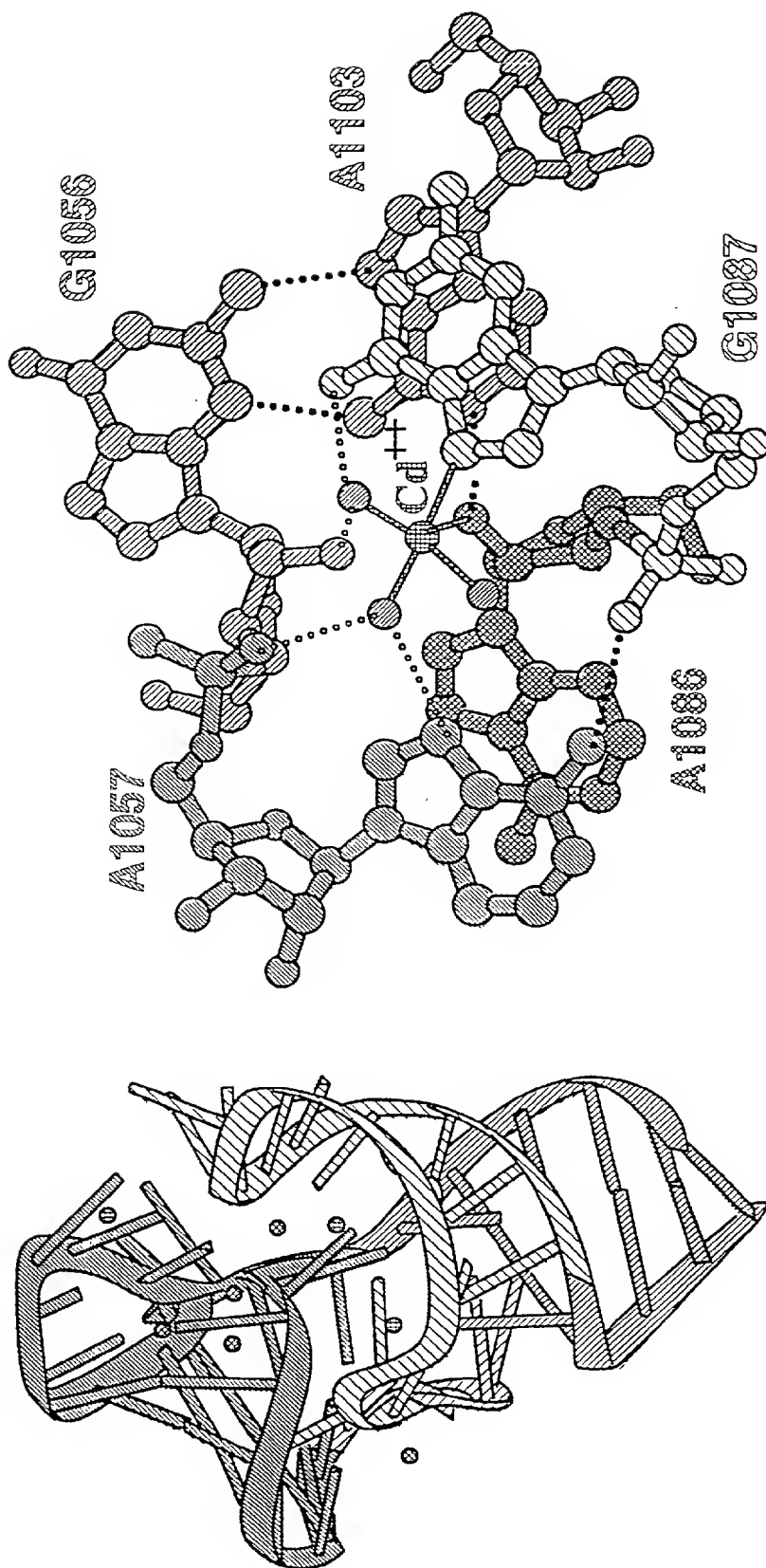
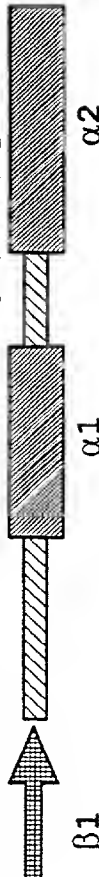


FIG. 3a

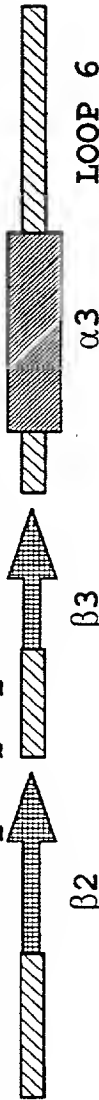
FIG. 3b

1 10 20 30 40
E coli ...MAKKVQ AYKQQAAG MANPSPVGP ALGQQGVNIM EFCKAFNAKT
T marit ...MAKKVA AQKQQLPAG KATPAPPVGP ALGQHGVMIM EFCKRFNAET
Sulf acMPT KTKNNVEGG SAKPGPPLGP TISQLGLNVQ EVVKKINDVT
Sacc corMPPKFDPNV KYLYLAVGG EVGASAAALP KIGPLGLSPK KVGEDIAKAT




β1 α1

50 60 70 80 90
E coli DSIEKGLP VVTVT.ADR SETVVP AVKKAAG...KS...KP
T marit AD.KAG... VVTY.EDK ATITP PFFKKAAG...E...EP
Sulf ac AQEK.G... TTKDSSSTK KYDKKGT TSSALKAN...Q...SDP
Sacc corKEFK.G... QLLQMRQA AAS...VTS...SS...ITAK EPPRDRKKDK

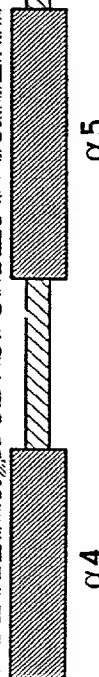


β2 α3 LOOP 6

100 110 120 130 140
E coli ...DKVGKSR AQQELQ... AANTGDIE ...R...E... R...GLVVED.
T marit ...KIVGKTR KQFF...K... MP...NANSLE ...K...E... K...GL...EVD.
Sulf ac ...KIGNIDL EQAD...I... KP...SANTLT ...K...L... R...GLTVEGK
Sacc cor NVKHSNQL DEIE...KOM RDN...SGTIA ...K...L... Q...Y...GRVDFK



β4 α4



β5 α5

FIG. 4a

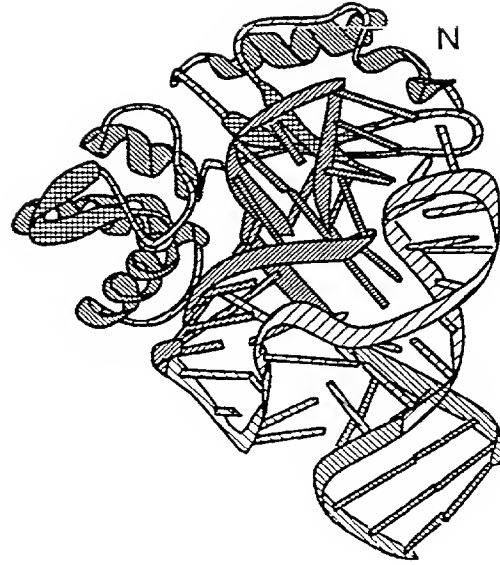
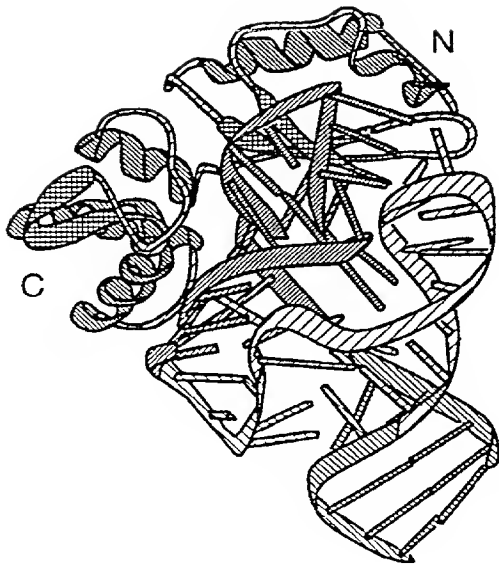


FIG. 4b

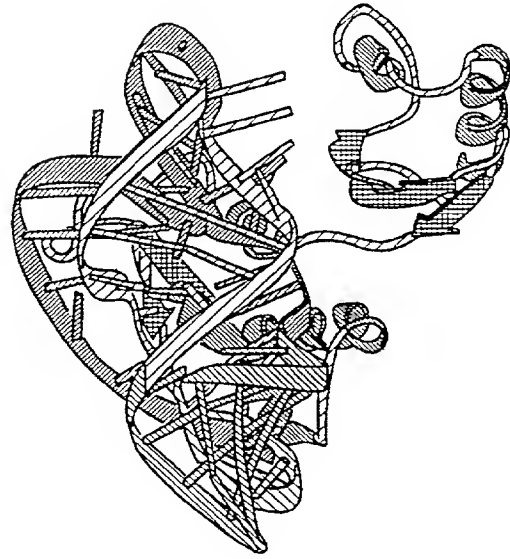
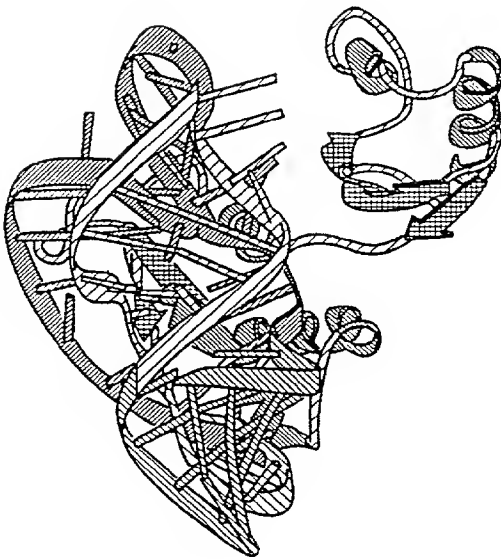
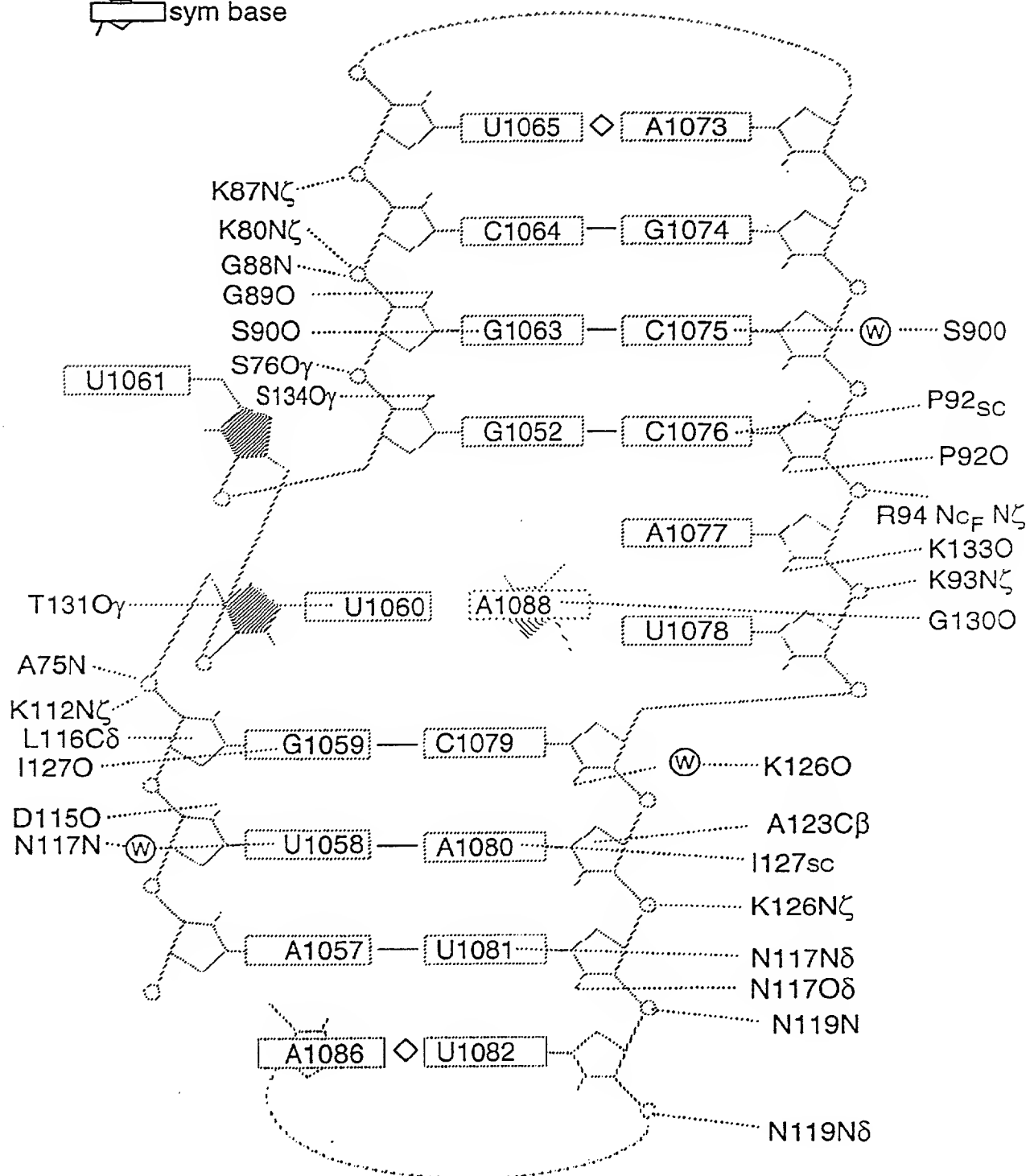


FIG. 4c



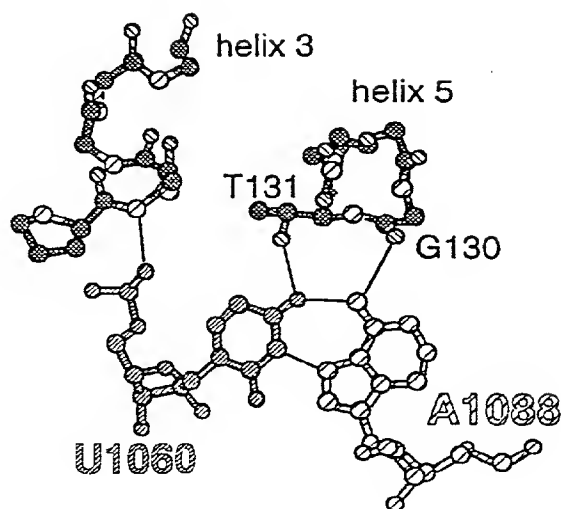


FIG. 5b

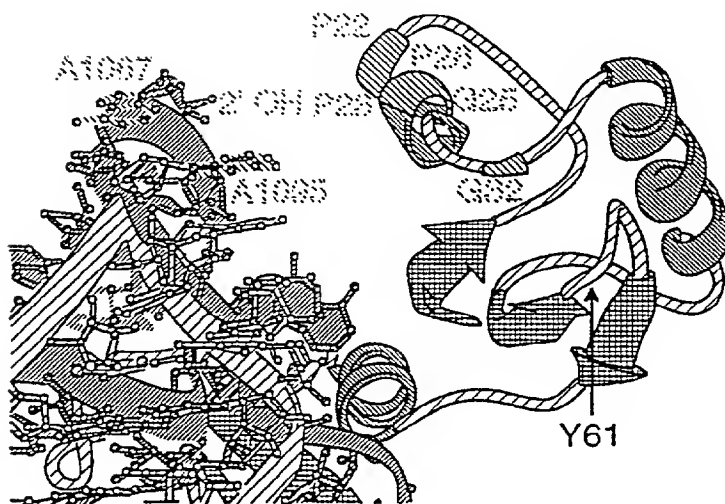


FIG. 6